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ABSTRACT

Presented is a listing of books recommended by the Mathematical Association of the United Kingdom that deal with mathematics education at the secondary school level. The following information on each book is provided: author; title; publisher; cost to the nearest pound; categories of use; and a code that indicates if the book in question is out of print, reprinted, and/or highly recommended. Brief annotations are provided with many of the entries. (MP)

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BOOKLISTS

For the Teaching of Mathematics in Schools

SECONDARY SCHOOLS

(REF: SEC)

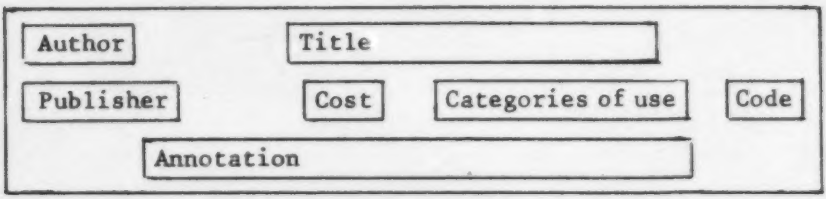
prepared by a sub-committee
of the Teaching Committee
of the
Mathematical Association

THE MATHEMATICAL ASSOCIATION

May 1980

SE 035 592

Information on each book is displayed in the following format:



Cost Given to the nearest £ above.

Code Symbols

* Highly recommended.

O Out of Print.

R Reprinting.

Categories of use

A Applications - to science, geography, economics.....
B Background and reference books for teachers.
C Content - mathematical topics (not above 1st year University level).
E Mathematical Education - eg. for 'Diploma' students.
J/K Primary school teachers (4-11 yrs)/and pupils.
L/M Lower secondary school teachers (11-16)/and pupils.
P/Q Practical and constructional work, books for teachers/pupils.
T Teaching method.
U/V Sixth-form teachers/and pupils.
Z Puzzles, problems, games and recreational mathematics.

Details of lists available are shown outside back cover.

PREFACE

The lists have been prepared by a sub-committee of Teaching Committee, and edited by F.R. Watson. A data-processing program written by Dr. K.H. Bennett (University of Keele) was used to extract the sublists and print them alphabetically.

Very many people have contributed to the production of these lists, in a variety of ways. In particular, thanks are due to the staff of the Education Library and of the Computer Centre, University of Keele, and to the members of the sub-committee, and many others who supplied information and comments.

It is intended to up-date the lists at fairly frequent intervals. We cannot hope to have avoided all errors and your suggestions are invited; they will help to improve the lists.

Comments on the lists, or notification of errors and omissions will be welcomed. Please address correspondence to the Secretary, Booklists Sub-committee, c/o Mathematical Association, 259 London Road, Leicester.

F.R.W.

May 1980

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AABOE, A. EPISODES FROM THE EARLY HISTORY OF MATHEMATICS
RANDOM HOUSE LU
+

ABBOTT, D. ADVANCED STATISTICS QUESTIONS.
CHAPMAN AND HALL, 1969 UV O
+

ABBOTT, E.A. FLATLAND.
BLACKWELL, 3RD EDN., 1950. 3 BUAUV
+ (CLASSIC; IMAGINATIVE ACCOUNT OF WORLD OF 2, 1, AND 4 DIMENSIONS, WRITTEN 1880'S).

ABLEWHITE, R.C. MATHEMATICS AND THE LESS ABLE.
HEINEMANN, 1969. ELT
+ (FOR NON-SPECIALISTS)

ADLER, I. PROBABILITY AND STATISTICS FOR EVERYMAN.
DOBSON, 1963. BJLU
+ (G365)

ADLER, I. THE NEW MATHEMATICS.
DOBSON, 1964. BELUV
+ (EARLY POPULAR APPROACH, CLEAR, BUT DATED)

ADLER, I. GIANT GOLDEN BOOK OF MATHEMATICS - EXPLORING THE WORLD OF NUMBERS AND SPACE.
GOLDEN PRESS, N.YORK 1958,1960 AJKLN
(WESTERN PUBLISHING CO. INC., 1220 MOUND AVE, RACINE WI 53404, USA)
+ (PP 56)

ALEXANDROFF, P.S. INTRODUCTION TO THE THEORY OF GROUPS.
BLACKIE, 1961. BCUV O
+ (G370)

ALLEN, R.G.D. BASIC MATHEMATICS.
MACMILLAN, 1965 3 BCUV
+ (G361 SERVICE TEXT BY A MATHEMATICAL ECONOMIST - ALGEBRA, ANALYSIS AND SOME GEOMETRY. UNDERGRADUATE LEVEL)

ANDERSON, I. A FIRST COURSE IN COMBINATORIAL MATHEMATICS.
OUP, 1974. 3 BCUV
+ (G405, READABLE INTRODUCTION, PP. 123)

ANDERSON, J. ALGEBRA
BLACKIE, 1978 ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

ANDERSON, R.W. ROMPING THROUGH MATHEMATICS
FABER, 1952. 1+ UMUV
+

ANDREE, R.V. SELECTIONS FROM MODERN ABSTRACT ALGEBRA.
CONSTABLE, 1958. CU
+ (A FIRST COURSE)

ANDREWS, J.G.& MCLONE R.R., EDS. MATHEMATICAL MODELLING.
BUTTERWORTHS, 1976. 4 ABCU *
+ (G41B, CASE STUDIES - ABOUT USING SPECIFIC MODELS, RATHER THAN THE PROCESS OF MODELLING, PP. 260)

APOSTOL, T. SELECTED PAPERS ON PRECALCULUS MATHEMATICS.
MATHEMATICAL ASSOCIATION OF AMERICA, 1977. BUMUV *
+ (G42J, ARTICLES FROM AMERICAN MATHEMATICAL MONTHLY, AND MATHEMATICS MAGAZINE PP. 469)

APOSTOL, T. SELECTED PAPERS IN CALCULUS.
MATHEMATICAL ASSOCIATION OF AMERICA, 1969. BCUV
+

ARGUNOV, B.I.& SKORNYAKOV, L.A. CONFIGURATION THEOREMS.
HEATH . MY
+ (DESARGUES AND PAPPUS FOR BEGINNERS)

ARMITAGE, J.V. AND GRIFFITHS H.B. A COMPANION TO ADVANCED MATHEMATICS 1
CUP, 1969. BCUV
+ (HANDBOOK FOR SHP A LEVEL - BACKGROUND FOR ALGEBRA AND ANALYSIS. NOT EASY READING)

ASSISTANT MASTERS ASSOCIATION THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS
CUP., 1973, 2ND. ED. 4 ELTU
+ (SURVEY OF MOST ASPECTS)

ATKIN, R.H. MATHEMATICS AND WAVE MECHANICS.
HEINEMANN, 1964 ABCU
+

ATM PAMPHLETS (SEVERAL TITLES)
ATM,MARKET ST CHAMBERS,NELSON,LANCS, 1 EJKLNT *
BB9 7LN
+ (TITLES INCLUDE IDEAS FOR SLOW LEARNERS;NUMBERS EVERYWHERE;RODS, BLOCKS AND BALANCES;FILM AND FILMSTRIP LIST. DETAILS FROM ATM)

ATM MATHEMATICS FOR SIXTH-FORMERS
ATM,MARKET ST. CHAMBERS,NELSON,LANCS, 4 ETUV
BB9 7LN
+

ATM THE DEVELOPMENT OF MATHEMATICAL ACTIVITY IN CHILDREN.
ATM, MARKET ST. CHAMBERS, NELSON, LANCS. EJLTU *
+ (WRITTEN FOR I.C.M., MOSCOW 1966)

ATM EXAMINATIONS AND ASSESSMENT.
ATM, MARKET ST. CHAMBERS, NELSON, LANCS. EJLTU *
+

ATM NOTES ON MATHEMATICS FOR CHILDREN.
CUP., 1977 3 EJLT *
+ (G421, ANECDOTES AND EXPOSITIONS, PRIMARY, LOWER SECONDARY, PP. 233)

ATM MATHEMATICAL REFLECTIONS.
CUP. 2 BELTUV O
+ (ESSAYS IN MEMORY OF G. SILLITOE; FULL OF VARIED GEOMETRICAL IDEAS, PP. 244)

ATM NOTES ON MATHEMATICS IN PRIMARY SCHOOLS
CUP 1967 2 JLET *
+ (DESPITE ITS TITLE CONTAINS MANY IDEAS USEFUL IN EARLY SECONDARY YEARS)

AVITAL, S.M. AND SHETTLEMOR- OBJECTIVES FOR MATHEMATICS LEARNING.
TH, S.J.
ONTARIO INSTITUTE FOR STUDIES IN EDUCATION, EJLT *
1968.
+ (TAXONOMY DERIVED FROM BLOOM, SAMPLE TEST ITEMS)

BACKHOUSE, J.K. STATISTICS - AN INTRODUCTION TO TESTS OF SIGNIFICANCE
LONGMANS 1968 1 UV
+ (VERY USEFUL AT 6 FORM LEVEL)

BAILEY, C.A.R. SETS AND LOGIC 1&2 (ST. DUNSTAN'S COLLEGE BOOKLETS)
ARNOLD. 1,1 LMUV
+

BALL, W.W. & COXETER, H.S.M. MATHEMATICAL RECREATIONS AND ESSAYS.
MACMILLAN, 12TH ED., 1974. 3 BUVZ *O
+ (G409, CLASSIC COLLECTION, REPEATEDLY REVISED PP. 428)

BANWELL, C. AND OTHERS STARTING POINTS FOR TEACHING MATHS IN MIDDLE AND SECONDARY SCHOOLS.
OUP.1972. EJLMPQTUVZ *O
+ (MIS 1,7 IDEAS FOR INVESTIGATIONS, LOWER SECONDARY)

BARNARD, S. AND CHILD, J.M. HIGHER ALGEBRA
MACMILLAN,1936,1ST ED UV
+ (THE FIRST ED HAS MANY UNIMPORTANT MISPRINTS;
A MINE OF CLASSICAL ALGEBRA, METHODS,EXERCISES, PP585)

BARNES, D. LANGUAGE, THE LEARNER AND THE SCHOOL.
PENGUIN, 1971, 2ND. ED. 1 EJLTU *
+ (LANGUAGE INTERACTION IN THE CLASSROOM - INCLUDES MATHEMATICS EXAMPLES)

BARON, M.E. NUMBER IN ELEMENTARY MATHEMATICS
HUTCHINSON EDUCATIONAL 4 EJLT
+

BARR, S. EXPERIMENTS IN TOPOLOGY.
MURRAY, 1965. BUMPUVQ *O
+ (PRACTICAL ACTIVITY AND FASCINATING DIALOGUE)

BATTERSBY, A. MATHEMATICS IN MANAGEMENT.
PENGUIN, 1966. 1+ ABLUV *
+ (G380, USEFUL GUIDE OPERATIONAL RESEARCH PP.256)

BAXANDALL, P.R.ET AL PROOF IN MATHEMATICS.
UNIVERSITY OF KEELE. INSTITUTE OF 1 ELUV *
EDUCATION, 1978
+

BEARD, R. S. PATTERNS IN SPACE.
CREATIVE PUBLICATIONS INC. (BOX 10328, PALO ALTO, CALIFORNIA, 94303,USA. LPU
+ (GEOMETRIC DESIGNS & CONSTRUCTIONS, PP.237)

BECKENBACH, E. & BELLMAN, R. AN INTRODUCTION TO INEQUALITIES
MATHEMATICAL ASSOCIATION OF AMERICA LMUVC *
+

BEILER, A.H. RECREATIONS IN THE THEORY OF NUMBERS. THE QUEEN OF MATHEMATICS ENTERTAINS
DOVER, 1966. 3 LMUVZ *
+ (ELEMENTARY, VERY FULL BIBLIOGRAPHY, PP.349)

BELL, A.W. ALGEBRAIC STRUCTURE.
ALLEN AND UNWIN. UVC
+ (NUMBER SYSTEMS, GROUPS, FIELDS ; 6 FORM AND COLLEGE)

BELL, A.W. AND FLETCHER, T.J. SYMMETRY GROUPS. MATHEMATICS TEACHING PAMPHLET NO.12.
A.T.M., 1964. BCLUV
+ (STRIP AND WALLPAPER PATTERNS)

BELL, A.W. AND OTHERS JOURNEY INTO MATHS.
BLACKIE, 1979. ELMT *
+ (THE S.NOTTINGHAMSHIRE PROJECT)

BELL, E.T. MEN OF MATHEMATICS. VOLS I,II.
PENGUIN, 1953. BHUV *
+ (DETAILED BIOGRAPHIES OF MAJOR MATHEMATICIANS)

BELL, E.T. MATHEMATICS, QUEEN AND SERVANT OF SCIENCE.
BELL, 1952. BHLUV 0
+

BENDICK, J. AND OTHERS MATHEMATICS ILLUSTRATED DICTIONARY.
KAYE & WARD WITH HICKS, SMITH, 1965 Z BHM
+ (MIS 4,1 DEFINITIONS,EXPLANATIONS,POTTED BIOGRAPHIES; SIMPLE LANGUAGE,GENEROUSLY ILLUSTRATED)

BERGAMINI, D. MATHEMATICS.
TIME-LIFE INTERNATIONAL, 1969. 1+ BHUWV *
+ (G391, POPULAR HISTORICAL ACCOUNT, PP. 189)

BIGGS, E.E. AND MACLEAN, J.R. FREEDOM TO LEARN.
ADDISON-WESLEY, 1969. 9 EJLT
+ (ACTIVE LEARNING, CANADA)

BIGGS, E.E. AND MACLEAN, J.R. MATHEMATICS FOR OLDER CHILDREN.
MACMILLAN, 1972. JLT 0
+ (MIS 1,7 OLDER JUNIORS; TEACHING METHOD AND RESEARCH)

BIRKHOFF, G.& MACLANE, S.A. A SURVEY OF MODERN ALGEBRA.
COLLIER-MACMILLAN, 4TH ED., 1977. 11 CU *
+ (G419, CLASSIC RECENTLY REVISED, COVERS MOST UNDERGRADUATE TOPICS, PP. 500)

BIRKHOFF, G.D. AND BEATLEY, R. BASIC GEOMETRY.
CHELSEA, 3RD EDITION, 1940. 5 LBT
+ (TRADITIONAL EUCLIDEAN GEOMETRY MADE RIGOROUS AND INTERESTING, PP 294)

BLUMENTHAL, L.M. A MODERN VIEW OF GEOMETRY.
FREEMAN, 1961. BCU 0
+ (AXIOMATIC AFFINE AND PROJECTIVE DEVELOPMENT LEADING TO EUCLIDEAN AND NON-EUCLIDEAN GEOMETRY; CONTAINS A GOOD HISTORICAL CHAPTER)

BOLTYANSKII, V.G. EQUIVALENT AND EQUIDECOMPOSABLE FIGURES.
HEATH . CUVZ
+

BOON, F.C. A COMPANION TO ELEMENTARY SCHOOL MATHEMATICS.
LONGMANS, 1960 BLUV 0
+ (FIRST PUBLISHED 1924 - BACKGROUND TO TRADITIONAL A LEVEL. STILL HAS MATERIAL NOT AVAILABLE ELSEWHERE)

BOON, F.C. (REVISED CUNDY) PUZZLE PAPERS IN ARITHMETIC.
BELL, 1960. LMUVZ
+ (NOT JUST ARITHMETIC - USEFUL COLLECTION OF 'PUZZLES')

BOWDEN, F.P.& TABOR,D. FRICTION AND LUBRICATION.
CHAPMAN AND HALL, 1956. BCUV *O
+ (PHYSICAL REALITIES UNDERLYING LAWS OF FRICTION)

BOWMAN, M.E. ROMANCE IN ARITHMETIC.
UNIV. OF LONDON PRESS, 1969. BHJKLMUV O
+ (SIMPLE READABLE ACCOUNT OF HISTORY OF MEASURES)

BOYS, G.H.R. PROBLEMS IN APPLIED MATHEMATICS.
ARNOLD., 1972. 2 UV
+ (G399, MEI A LEVEL, PP. 163)

BRADFORD, M.G. AND KENT, W.A. HUMAN GEOGRAPHY, THEORIES AND THEIR APPLICATIONS
OUP, 1977 ABCLUV
+ (SOME MATHEMATICAL MODELS USED IN GEOGRAPHY PP180)

BRADIS, V.M.ET AL LAPSES IN MATHEMATICAL REASONING.
PERGAMON, 1963. BUZ O
+

BRANFIELD, J.R. AND BELL, A.W. MATRICES AND THEIR APPLICATIONS.
MACMILLAN, 1970. 3 BUV
+ (MIS 4,3, 6TH FORM APPROACH - INCLUDES MARKOV CHAINS AND QUADRATIC FORMS)

BRODETSKY, S. A FIRST COURSE IN NOMOGRAPHY
BELL 1920 LU
+ (OLD BUT USEFUL AND INTERESTING)

BROOKES, B.C. NOTES ON THE TEACHING OF STATISTICS IN SCHOOLS.
HEINEMANN ED., 1952. LTU
+

BUDDEN, F.J. AN INTRODUCTION TO ALGEBRAIC STRUCTURES
LONGMAN U
+

BUDDEN, F.J. THE FASCINATION OF GROUPS
CUP 1972 6 LUV *
+ (MIS 2,1)

BUDDEN, F.J. COMPLEX NUMBERS AND THEIR APPLICATIONS
LONGMANS 1968 1 UV
+

BULLEN, K.E. INTRODUCTION TO THE THEORY OF MECHANICS.
CAMBRIDGE, 8TH EDN., 1971 10 UV
+ (IDIOSYNCRATIC PRESENTATION)

BULMER, M. G. PRINCIPLES OF STATISTICS
OLIVER AND BOYD CUV
+

BUNT, L.N.H.,ET AL. THE HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS.
PRENTICE-HALL, 1976. BHJLU
+ (ARITHMETIC,ALGEBRA,GEOMETRY,NUMBER SYSTEMS DERIVED FROM THEIR SOURCES, PP300)

BURKHARDT, H. SEVEN SEVENS ARE FIFTY? - MATHEMATICS FOR THE REAL WORLD: INAUGURAL LECTURE.
SHELL CENTRE FOR MATHEMATICAL EDUCATION. ABLUE
UNIVERSITY OF NOTTINGHAM.
+

BURKILL, J.C. AND CUNDY, H.M. MATHEMATICAL SCHOLARSHIP PROBLEMS.
CUP. UVZ 0
+

BURN, R.P. DEDUCTIVE TRANSFORMATION GEOMETRY.
CUP,1975 7 BCU
+ (G413, AXIOMATIC TREATMENT WHICH DOES NOT USE REAL NUMBER SYSTEM, PP. 121)

CADWELL, J.H. TOPICS IN RECREATIONAL MATHEMATICS.
CUP, 1966 7 UVZ
+

CAMERON, A.J. MATHEMATICAL ENTERPRISES FOR SCHOOLS.
PERGAMON, 1966. BJLHPQ
+

CAMPBELL, R.C.. STATISTICS FOR BIOLOGISTS.
CUP, 2ND EDN. 1974. 5 ABUV
+ (G405, USEFUL FOR TEACHERS, REQUIRES MINIMAL MATHEMATICAL BACKGROUND, PP. 385)

CARTER,D.C.,ED. TOPICS IN MATHEMATICS: SOME IDEAS FOR THE SECONDARY CLASSROOM
BELL & HYMAN, 1979 4 BCELTU *
+ (FROM MATH. GAZETTE)

CARTER, D.C. AND WAIN, G.T., EDS. REFERENCES OF USE TO TEACHERS OF MATHEMATICS. VOL I AND SUPPLEMENT 1
CENTRE FOR STUDIES IN SCIENCE EDUCATION, BEJLTU *
UNIVERSITY OF LEEDS. 1975,1977.
+ (COMPREHENSIVE, FROM JOURNALS)

CHAPMAN, L.R.,ED. THE PROCESS OF LEARNING MATHEMATICS.
PERGAMON,1972 8 BEJLTUV
+ (G399, MIS 2,1 COLLECTED B.ED. LECTURES, PP. 392)

CHAROSH, M. MATHEMATICAL CHALLENGES.
NATIONAL COUNCIL OF TEACHERS OF MATHS,1965. LMUVZ
+

CHELLINGSWORTH, W. MATHS FOR CIRCUITS.
MACMILLAN, 1964. ACU 0
+

CHRONICLER,THE FRED LEARNS BASIC STATISTICS
CONTINUA PRODUCTIONS 1975 2 LUV
+ (A LIGHTHEARTED SURVEY OF STATISTICAL METHODS, PP96)

CLARKE, G.M. & COOKE, D. A BASIC COURSE IN STATISTICS
ARNOLD, 1978. 7 UVBC *
+ (G423, TEXT FOR A LEVEL AND BEYOND; PRACTICAL APPLICATIONS ARE STRESSED BUT THEORY IS WELL AND CAREFULLY EXPLAINED; LOTS OF EXERCISES, PP. 368)

CLIFFORD, W.K. THE COMMON SENSE OF THE EXACT SCIENCES.
DOVER. HU 0
+ (CLASSIC, POSSIBLY MAINLY OF HISTORICAL INTEREST, BUT STILL CHALLENGING)

COHN, P.M. LINEAR EQUATIONS
ROUTLEDGE AND KEGAN PAUL, 1958. 1 CUV
+ (SHORT INTRODUCTION TO LINEAR ALGEBRA, FOR UNDERGRADUATES, PP. 75)

COHN, P.M. SOLID GEOMETRY.
ROUTLEDGE AND KEGAN PAUL 2 BCUV
+ (BRIEF INTRODUCTION)

COLE, J.P. AND BEYNON, W.J. NEW WAYS IN GEOGRAPHY (3 VOLS)
BASIL BLACKWELL 1, PQJKLM *
+ (MIS 6,1 SIMPLE PRACTICAL MATHEMATICS EXERCISES,PP61,64,64)

COLLINGS, S. THEORETICAL STATISTICS-BASIC IDEAS.BOOKS 1 &2.
TRANSWORLD. 1,1 CUV 0
+ (G411, MIS 2,3, TEXT, A LEVEL +, PP. 92,148)

CAMBRIDGE J.T.,ED. COUNT ME IN.
THE QUEEN ANNE PRESS LTD., 1968. BEJLTUV
+ (ESSAYS, VARIOUS AUTHORS, NUMERACY IN EDUCATION AND WORK)

COMMITTEE ON THE UNDER- A BASIC LIBRARY LIST FOR FOUR-YEAR COLLEGES
GRADUATE PROGRAM IN MATHEMATICS
(MAA)
MATHEMATICAL ASSOCIATION OF AMERICA 4 BCEU
+ (NUCLEUS FOR LIBRARY HOLDINGS IN US COLLEGES)

CONTE, S.D.& DE BOOR,C. ELEMENTARY NUMERICAL ANALYSIS:AN ALGORITHMIC APPROACH.
MCGRAW-HILL KOZAKUSHA, 1973. 6 UVC
+

CORLETT, P.H.& TINSLEY,J.D. PRACTICAL PROGRAMMING.
CUP, 2ND ED., 1972. 4 UV
+ (MAINLY MATHEMATICALLY-BASED PROGRAMS, PP. 264)

COSRIMS THE MATHEMATICAL SCIENCES.
M.I.T.PRESS, 1969. 3+ BUV *
+ (ESSAYS BY U.S. AUTHORS - MODERN RESEARCH AND APPLICATIONS)

COULSON, A.E. AN INTRODUCTION TO MATRICES
LONGMANS 1969 1 UV
+

COULSON, A.E. AN INTRODUCTION TO VECTORS
LONGMANS 1969 1 UV
+

COURANT, R.& ROBBINS, H. WHAT IS MATHEMATICS?
OXFORD, 1941. 9 BCEU *
+ (READABLE INTRODUCTION TO IDEAS AND CONCEPTS AT UNDERGRADUATE LEVEL)

COXETER, H.S.& GREITZER,S.L. GEOMETRY REVISITED.
MATHEMATICAL ASSOCIATION OF AMERICA, 1967. 1+ ELMUV *
+ (G381, WIDE-RANGING AND FRESH, PP. 193)

COXETER, H.S.M. INTRODUCTION TO GEOMETRY.
WILEY, 2ND EDN. 1969. 15 CUV *
+ (CLASSIC SUMMARY - LOOKS HARDER THAN IT IS; AN EXCELLENT SURVEY OF SYMMETRY).

CRANK, J. MATHEMATICS AND INDUSTRY.
OXFORD, 2ND EDN., 1975 16 ABCLUV
+

CRAWFORD, D.H. THE FIFE MATHEMATICS PROJECT. AN EXPERIMENT IN INDIVIDUALISED LEARNING.
OUP, 1975. 2 ELT
+ (G411, MIS 5,1, MIXED ABILITY, PP. 146)

CRITCHLOW, K. ORDER IN SPACE (GEOMETRY).
THAMES & HUDSON, 1969 JLPUVH *
+ (PRACTICAL VISUAL EXERCISES)

CROSSLEY, J.N.,ET AL. WHAT IS MATHEMATICAL LOGIC?
OUP, 1972. 2 CUV
+ (G403, BASED ON MELBOURNE LECTURE SERIES, PP.82)

CUNDY, H.M. & ROLLET, A.P. MATHEMATICAL MODELS.
OXFORD, 2ND EDN., 1973 3 BJLMPQUV *
+ (G358, MIS 2,3, CLASSIC TREATMENT OF MODELS AND MODEL-MAKING, PP. 286)

DAISH, C.B. THE PHYSICS OF BALL GAMES.
ENGLISH UNIV.PRESS. 3+ ABCUV *O
+ (G401,PP180)

DALTON, R.ET AL NETWORKS IN GEOGRAPHY.
G.PHILIP, 1973 ALMPQUV
+

DANTZIG ,T NUMBER ,THE LANGUAGE OF SCIENCE
ALLEN AND UNWIN,1962,4TH ED 2+ LUVH *
+ (GXV,FIRST 8 CHS TRACE HISTORY OF NUMBER CONCEPT
FROM FINGERS TO WEIERSTRASS.ACCURATE AND INTERESTING. PP 320)

DAVENPORT, H THE HIGHER ARITHMETIC. AN INTRODUCTION TO THE THEORY OF NUMBERS
HUTCHINSON 1962 (2ND ED.) 1+ UVC
+ (G. XXX, LUCID, CONCISE, SELF-CONTAINED ACCOUNT OF CLASSICAL THEORY, PP 172)

DAVID, F. N. GAMES, GODS AND GAMBLING
GRIFFIN, 1969. 3 BHUV
+ (EXAMPLES FROM THE HISTORY OF PROBABILITY AND STATISTICS, PP.275)

DAVIS, P.J. THE LORE OF LARGE NUMBERS.
RANDOM HOUSE. BUMUV
+

DEDEKIND, R. ESSAYS ON THE THEORY OF NUMBERS.
DOVER U
+

DICKIE, P.C.ET AL MATHEMATICAL TOPICS IN MECHANICS.
OLIVER & BOYD. 2+ V O
+ (G401,ALEVEL STANDARD,USING VECTORS. SMG TEXT,PP225)

DICKINSON, G.C. STATISTICAL MAPPING AND THE PRESENTATION OF STATISTICS
EDWARD ARNOLD,1963,1ST ED 2 U V B C E A
+ (A WIDE VARIETY OF GOOD AND BAD WAYS OF PRESENTING DATA)

DIENES, Z.P. BUILDING UP MATHEMATICS.
HUTCHINSON EDUCATIONAL 4TH ED. 1971. EJLT *
+ (INTRODUCTION TO DIENES' PHILOSOPY OF MATHEMATICS TCHG - INCLUDING MULTIBASE ARITHMETIC BLOCKS AND ALGEBRAIC EXPERIENCE MATERIALS)

DIENES, Z.P.(TRS. SEABORNE) THE SIX STAGES IN THE PROCESS OF LEARNING MATHEMATICS.
NFER, 1973 1 BEJLTU
+ (G405,MIS3,4 THOUGHT PROVOKING,PP54)

DIENES, Z.P. AND JEEVES, M.A. THINKING IN STRUCTURES.
HUTCHINSON. ELUT
+ (SPECIALIST: RESEARCH REPORT)

DIXON, C. NUMERICAL ANALYSIS.
BLACKIE & CHAMBERS. 3 CUV
+

DORRIE, H. 100 GREAT PROBLEMS OF ELEMENTARY MATHEMATICS.
DOVER. 1965. 3 BUVZ *
+

DUBNOV, YA.S. MISTAKES IN GEOMETRIC PROOFS
HEATH . V
+ (INCLUDES CLASSICAL FALLACIES - E.G. ALL TRIANGLES ARE ISOSCELES - AND CHAPTER ON LIMITS)

DUNCAN, A. TEACHING MATHEMATICS TO SLOW LEARNERS
WARD LOCK 1978 6 EJLT
+

DURELL, C.V. READABLE RELATIVITY.
BELL. BUV 0
+ (OLD POPULARISATION - STILL OF INTEREST)

DYNKIN, E.B. & USPENSKII, V.A. RANDOM WALKS
HEATH (EUROSPAN, LONDON WC2) CUV
+

DYNKIN, E.B. & USPENSKII, V.A. MULTICOLOR PROBLEMS.
HEATH (EUROSPAN, LONDON WC2) CUVZ *
+ (STEADY PROGRESS THROUGH THE 2 AND 3 COLOUR PROBLEMS; EXCELLENT FOR INDEPENDENT STUDY BY THE ABLE PUPIL)

EDSALL, D. CALCULATORS HAVE COME.
MATHEMATICAL ASSOCIATION, 1976. 1 ELU
+ (IMPACT IN SCHOOLS; BECOMING OUT OF DATE)

EHRENBERG, A.S.C. DATA REDUCTION.
WILEY, 1975. 5 ABTU
+ (UNUSUAL APPROACH TO BASIC STATISTICS BUT GOES QUITE FAR)

ELLIS, A. AND TREEBY, T. ALGEBRAIC STRUCTURE.
MURRAY, 1974. 2 CUV *
+ (BRIEF BUT FAIRLY DIFFICULT INTRODUCTION TO ABSTRACT ALGEBRA)

ELLIS, L. E. ET AL COMPUTERS & THE TEACHING OF NUMERICAL MATHEMATICS.
MATHEMATICAL ASSOCIATION, 1971. BU *
+

ESCHER, M. C. THE GRAPHIC WORK OF M. C. ESCHER.
OLDBOURNE PRESS. 1961. BJKLMUVZ *
+ (GOOD REPRODUCTIONS, SOME IN COLOUR, OF ESCHER'S WORK; NO ANALYSIS)

EVES, H. A SURVEY OF GEOMETRY, I, II.
ALLYN & BACON, 1963. BHUV *
+ (THOROUGH; VOL I SYNTHETIC, VOL II ANALYTIC)

EVES, H. AN INTRODUCTION TO THE HISTORY OF MATHEMATICS.
HOLT SAUNDERS, 4TH EDITION, 1979 14 HV *
+ (G4 IB, FULL OF USEFUL PROJECT IDEAS AND INVESTIGATIONS, PP588)

FAGG, S.V. DIFFERENTIAL EQUATIONS.
HODDER AND STOUGHTON 2 BCUV
+ (FAIRLY STANDARD, MAINLY TECHNIQUE, 1ST, 2ND ORDER; 6TH FORM OR UGRAD)

FEATHER, N. MASS, LENGTH, AND TIME.
PENGUIN. BUV *O
+

FELLER, W. INTRODUCTION TO PROBABILITY THEORY, VOL I
WILEY, 1950. CU *
+

FITZGERALD, B. P. DEVELOPMENTS IN GEOGRAPHICAL METHOD.
OUP, 1974. 2 ABUV
+ (MIS4, I APPLICATIONS OF STATISTICS AND TRANSFORMATIONS OF SPACE)

FLETCHER, D. & IBBOTSON, J. GEOMETRY WITH A TANGRAM
HOLMES MCDOUGALL 1966 J.K L.M
+

FLETCHER, H., HOWELL, A.H. AND WALKER, R. MATHEMATICS FOR SCHOOLS: TEACHERS' RESOURCE BOOKS
ADDISON WESLEY 1970-79 4 JLBET *
+ (LEVEL I (INFANTS) ONE VOL., LEVEL II (JUNIOR-MIDDLE) FIVE VOLS.)

FLETCHER, H. AND HOWELL, A. A. MATHEMATICS WITH UNDERSTANDING (2 VOLS).
PERGAMON, 1970. 4,7 BEJLT
+ (CONTENT AND APPROACH AT PRIMARY LEVEL)

FLETCHER, T. J. LINEAR ALGEBRA THROUGH ITS APPLICATIONS.
VAN NOSTRAND, 1972. CUV *O
+ (EXCELLENT INTRODUCTION -GETS DIFFICULT AT END; APPLICATIONS TO GEOMETRY, PHYSICS, STATISTICS, ETC. FAMILIARITY WITH MECHANICS NEEDED FOR SOME SECTIONS.)

FLETCHER, T.J. RECURRENCE RELATIONS.
MATHEMATICAL PIE, 1958. LUVZ
+

FLETCHER, T.J.,ED. SOME LESSONS IN MATHEMATICS.
CUP 8 BELTU *
+ (INDISPENSABLE - ONE OF THE CLASSICS OF MODERN MATHEMATICS; CHAPTER 10 IS AN EXCELLENT ACCOUNT OF REFLECTION GEOMETRY)

FORSYTH, A. I. AND OTHERS COMPUTER SCIENCE BASIC LANGUAGE PROGRAMMING.
OLIVER AND BOYD. 8 LMUVZ 0
+ (MAINLY MATHEMATICAL PROBLEMS)

FOWLER, D. INTRODUCING REAL ANALYSIS
TRANSWORLD STUDENT LIBRARY, 1973 BU
+ (AN EXCELLENT BOOK FOR READING BETWEEN U6 & UNIVERSITY, PP 125)

FREUND, J.E. MODERN ELEMENTARY STATISTICS
PRENTICE-HALL, 5TH EDN., 1979 * CU
+ (PP 480)

GOLOMB, S. W. POLYOMINOES
ALLEN & UNWIN 1965 2 L M U V Z
+

GOLVINA, L.I. & YAGLOM, I.M. INDUCTION IN GEOMETRY.
HEATH . LUV
+ (GOOD EXAMPLES OF INDUCTIVE PROOFS; DISSECTION, MAP COLOURINGS AND CONSTRUCTIONS)

GOODSTEIN, R.L. FUNDAMENTAL CONCEPTS OF MATHEMATICS.
PERGAMON,2ND EDN., 1979 7 CUV
+

GOUTARD M. MATHEMATICS AND CHILDREN
EDUCATIONAL EXPLORERS 1964 J L T E
+

GRAHAM, L.A. INGENIOUS MATHEMATICAL PROBLEMS AND METHODS.
DOVER, 1959. 3 UVZ
+

GREAT BRITAIN, SCHOOLS COUNCIL PRIMARY MATHEMATICS PROJECT WHAT'S GOING ON IN PRIMARY MATHEMATICS.
SCHOOLS COUNCIL, 1974. EJL
+ (SURVEY)

GREGG, C.V. NOMOGRAMS.
MATHEMATICAL PIE, 1959. BUV
+

GREITZER, SAMUEL L. INTERNATIONAL MATHEMATICAL OLYMPIADS 1959-1977
WILEY (FOR MATHEMATICAL ASSOCIATION OF AMERICA) 4 UYZ
+ 1ST ED. 1978 (PP. 204)

GRIFFITHS, H.B. SURFACES.
CUP. 3 CUV
+ (G412, VERY EASY BEGINNING, VERY HARD END; PP120)

GRIFFITHS H.B. AND HILTON, P.J.A. COMPREHENSIVE TEXTBOOK OF CLASSICAL MATHEMATICS.
VAN NOSTRAND, 1970. BCU O
+ (MODERN AND ADVANCED; UNIVERSITY LEVEL)

GRIFFITHS H.B. AND HOWSON A.G. MATHEMATICS: SOCIETY & CURRICULA.
CUP., 1974. BELU *
+ (MIS 3,6; STANDARD REFERENCE; FORCES INFLUENCING CURRICULUM)

GRUENBERGER, F. AND JAFFRAY, G. PROBLEMS FOR COMPUTER SOLUTION.
WILEY, 1965. MQVZ
+ (PROBABLY BEST SUCH COLLECTION)

HABER, A. AND RUNYON, R. P. GENERAL STATISTICS
ADDISON-WESLEY 1973 I U V C E
+ (OPEN UNIVERSITY TEXTBOOK. COMPREHENSIVE ON APPLICATIONS. NOT HIGHLY MATHEMATICAL)

HAGGETT, P. AND CHORLEY, R. D. NETWORK ANALYSIS IN HUMAN GEOGRAPHY.
ARNOLD, 1969. 3 ACU
+ (UNIVERSITY GEOGRAPHERS' TEXT)

HALE, D. NUMBER: SOME IDEAS FOR THE CLASSROOM.
UNIVERSITY OF NOTTINGHAM. SHELL CENTRE FOR MATHEMATICAL EDUCATION, 1975. EL
+

HALE, D. SHAPE: SOME IDEAS FOR THE CLASSROOM.
UNIVERSITY OF NOTTINGHAM. SHELL CENTRE FOR MATHEMATICAL EDUCATION, 1975. EL
+

HALL, F. M. AN INTRODUCTION TO ABSTRACT ALGEBRA, VOL.1
C U P,1966 2 U C
+ (GOOD 6TH FORM AND FIRST YEAR UNIVERSITY LEVEL)

HALLERBERG, A. HISTORICAL TOPICS FOR THE MATHEMATICS CLASSROOM, (31ST YEAR BOOK)
NCTM, 1969. BEHJLTU
+ (RECOMMENDED, PP524)

HAMMOND,R. AND MCCULLAGH, P.S. QUANTITATIVE TECHNIQUES IN GEOGRAPHY
OUP,1974 4 ALU
+

HERSTEIN, I. N. TOPICS IN ALGEBRA.
BLAISDELL, 1964. CUV
+ (FORMAL APPROACH TO ABSTRACT ALGEBRA - ADVANCED)

HILBERT, D. AND COHN-VOSSEN, S. GEOMETRY AND THE IMAGINATION.
CHELSEA, 1956. 6 BCUV
+ (WORTH DIPPING INTO;SUBSTANTIAL VISUAL STUDY OF PROJECTION,INCIDENCE, TOPOLOGY PP358

HILTON, A. VECTORS (MACDONALD COLOUR UNITS)
MACDONALD 1 LMV
+

HIRST, K. E. AND RHODES, F. CONCEPTUAL MODELS IN MATHEMATICS.
ALLEN & UNWIN, 1971. 3 CU
+ (SETS,LOGIC,PROBABILITY,1ST YR UNIV)

HOBSON, E. W. ET AL SQUARING THE CIRCLE AND OTHER MONOGRAPHS.4 VOLS.
CHELSEA, 1958. 7 HUVB
+ (SECT.1 IS HISTORICAL,HIGH-POWERED DISCUSSION OF 'PI', 2 IS RULER AND COMPASSES(HUDSON), 3 IS NON-DIFFERENTIABLE FUNCTIONS(SINGH), 4 IS LINKAGES (KEMPE)).

HODGE, S. E. AND SEED, M. L. STATISTICS AND PROBABILITY.
BLACKIE AND CHAMBERS, 1978. 3 CUV
+ (6TH FORM TEXT OF SMG;COVERS MOST OF STATISTICS REQUIRED FOR A-LEVEL)

HODGES, W. LOGIC
PENGUIN, 1977. UV
+

HOEL, P.G. INTRODUCTION TO MATHEMATICAL STATISTICS.
WILEY,1971. 7 BCU
+

HOGBEN, L. MATHEMATICS
MACDONALD (WONDERFUL WORLD SERIES) 1968 K M J L *
+ (BEAUTIFULLY ILLUSTRATED CHILDREN'S BOOK)

HOGBEN, L. MATHEMATICS IN THE MAKING.
MACDONALD, 1960. BHJKLMUV
+

HOGBEN, L. MATHEMATICS FOR THE MILLION.
ALLEN AND UNWIN 6 BHJLUV
+ (AN OLD FAVOURITE,STILL VALUABLE)

HOLLAND, J.M. STUDIES IN STRUCTURE.
MACMILLAN, 1972. 2+ CUV *R
+ (G400,TO GROUPS THROUGH ISOMORPHISMS; INCLUDES APPLICATIONS,PP235)

HOLT, J. HOW CHILDREN FAIL.
PITMAN, 1964. EJLT *
+ (POLEMICAL;DIARY OF ATTEMPTS TO ANALYSE)

HOLT, M. AND MARJORAM, D. T. MATHEMATICS IN A CHANGING WORLD.
E.
HEINEMANN ED., 1973. ABLUV O
+ (G403,MIS 3,4,OOD SELECTION OF APPLICATIONS - SCIENCE,ECONOMICS
GEOGRAPHY GOOD ON PRACTICAL USES;PP293)

HOLT, M. J. AND MCINTOSH, A. THE SCOPE OF MATHEMATICS.
J.
OUP,1966. BJLUV
+ (LITTLE OUTDATED,BUT GOOD COVERAGE OF LOW LEVEL APPLICATIONS;
NON-SPECIALIST SIXTH FORMS,INCLUDES HISTORY,STRUCTURE AND LOGIC,
MODELLING)

HONSBERGER,R MATHEMATICAL PLUMS
MATHEMATICAL ASSOCIATION OF AMERICA,1979 8 LMUVZ
+ (10 ESSAYS ON INGENIOUS MATHEMATICAL WORK AT THE ELEMENTARY LEVEL,
PP 182) (SEE ALSO M.'GEMS' AND 'MORSELS')

HONSBERGER, R. MATHEMATICAL GEMS I,II.
MATHEMATICS ASSOCIATION OF AMERICA 19 3, BCUV *
1076.
+ (G407,417 UNUSUAL AND FASCINATING,PP176,182)

HOPKINS, C.H. PROJECT MATHS, STAGES 1,2,3.
LONGMANS, 1966 LMQ
+

HOWSON, A.G.,ED. DEVELOPMENTS IN MATHEMATICAL EDUCATION.
PROCEEDINGS..I.C.M.E.
CUP. 5 BEJLTU
+ (G404 MIS 3,1,INCLUDES PAPERS BY PIAGET,FREUDENTHAL,THOM,PP318)

HOYLE,F. THE NATURE OF THE UNIVERSE.
PENGUIN. BLUV O
+ (STIMULATING - CONTINUOUS CREATION THEORY)

HUFF, D. HOW TO TAKE A CHANCE.
PENGUIN. 1 BLMUV *
+ (LIGHT-HEARTED)

HUFF, D. HOW TO LIE WITH STATISTICS.
GOLLANCZ, 1954. BJLMUV *
+ (GIVES EXAMPLES OF FALSE/MISLEADING DATA PRESENTATION;ELEMENTARY,
AMUSING AND INSTRUCTIVE)

HUNTER, J. AND CUNDY, H.M. NUMBER
BLACKIE, 1978 ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

HUNTER, J ET AL. ALGEBRA AND NUMBER SYSTEMS
BLACKIE AND CHAMBERS UV
+ (S M G A LEVEL TEXT)

HUNTER J. CALCULUS.
BLACKIE/CHAMBERS,1972. 3 CUV *
+ (G 410,6TH FORM TEXT OF SMG,PP245)

HUNTLEY, H.E. THE DIVINE PROPORTION.
DOVER, 1970. 2 CVZ
+ (G393,PP181)

JACKSON, T.H. NUMBER THEORY.
ROUTLEDGE & KOGAN PAUL 2 UV
+ (G409, PP88)

JACOBS, H.R. MATHEMATICS, A HUMAN ENDEAVOR
FREEMAN, 1970. LUV
+ (TEXT FOR A LIBERAL ARTS COURSE, EXCELLENT RESOURCE BOOK;
IDEAS ADAPTABLE FOR 'MIDDLE' SCHOOLS ,PP.529)

JEGER M. TRANSFORMATION GEOMETRY.
ALLEN & UNWIN, 1966. BCLUV *0
+ (ANALYSIS OF TRANSFORMATIONS, NOT THE GOEMETRY - ISOMETRIES,
ENLARGEMENTS SIMILARITIES - IST YR. UGRAD. LEVEL)

JOHNSON, D.A. AND GLENN, W.H. (+ OTHER AUTHORS, INCLUDING COOPER,C.D.H.) EXPLORING MATHEMATICS ON YOUR OWN. (SERIES - SEVERAL TITLES)
MURRAY, 1964 ONWARDS, TO 1975 1 LMUV
+ (PRICES ABOUT 1 EACH - TITLES INCLUDE NUMBER PATTERNS, TOPOLOGY, MATRICES, INFINITE NUMBERS, PERMUTATIONS AND GROUPS, WORLD OF STATISTICS, THEOREM OF PYTHAGORAS, NUMBERS: THEIR PERSONALITIES AND PROPERTIES. NOTE - SOME OUT OF PRINT).

JONES, G.T. SIMULATION AND BUSINESS DECISIONS.
PENGUIN, 1972. ALUV 0
+ (RANDOMNESS IN A REAL SETTING)

KAC, M. & ULAM, S.M. MATHEMATICS AND LOGIC.
PENGUIN. BUV
+

KANER,P AND LANGDON,N IT FIGURES
BBC PUBLICATIONS,1979 3 LM
+ (PRACTICE EXAMPLES FOR EVERYDAY PROBLEMS,PP160)

KASNER, E. & NEWMAN, J.R. MATHEMATICS AND THE IMAGINATION.
BELL,1949. 5 BLUVZ *
+

KAYE, D BOOLEAN SYSTEMS
LONGMANS 1968 1 UV
+

KAZARINOFF, N.D. GEOMETRIC INEQUALITIES.
MATHEMATICAL ASSOCIATION OF AMERICA 1961 LUV *
+

KEMENY, J.G. ET AL. INTRODUCTION TO FINITE MATHEMATICS.
PRENTICE-HALL, 3RD EDN., 1974 11 BCUV
+ (FOR US BIOLOGY AND SOCIAL SCIENCE UNDERGRADUATES)

KING, A.C. AND READ, C.B. PATHWAYS TO PROBABILITY
HOLT, RINEHART AND WINSTON, 1963 BHLUV
+ (PP 139)

KLEIN, F. ELEMENTARY MATHEMATICS FROM AN ADVANCED STANDPOINT. VOLS 1,2.
DOVER, 1939. BCEHTU *O
+ (*COMPULSORY READING FOR ANY SERIOUS 6 FORM TEACHER - STILL I* VOL 1 THE BETTER OF THE TWO - THE GEOMETRY IN VOL 2 IS HEAVIER GOING)

KLEIN, F. ET AL. FAMOUS PROBLEMS OF ELEMENTARY GEOMETRY, AND OTHER MONOGRAPHS (4 VOLS IN 1)
CHELSEA. 2 CHLU
+ (SQUARING THE CIRCLE, DOUBLING THE CUBE AND TRISECTING ANGLES (KLEIN OTHER VOLS ARE SHEPPARD - FROM DETERMINANT TO TENSOR, MACMAHON SEPARATE VOLS. ARE OUT OF PRINT).

KLINE, M. MATHEMATICS IN THE MODERN WORLD.
FREEMAN, 1968. ABEHUV *
+ (50 READINGS FROM SCIENTIFIC AMERICAN)

KLINE, M. MATHEMATICAL THOUGHT FROM ANCIENT TO MODERN TIMES.
OUP, 1973. 24 CHLUV R*
+ (G403, HIS 3,4, EXHAUSTIVE, AUTHORITATIVE HISTORY, PP1238)

KLINE, M. MATHEMATICS IN WESTERN CULTURE.
PENGUIN, 1972. 2 BCHLUV *
+ (LAYMAN'S INTRODUCTION)

KLINE, M. CALCULUS: AN INTUITIVE AND PHYSICAL APPROACH.
WILEY, 2ND EDN., 1977. 16 UV
+ (G417, PP943)

KNOPP, K. INFINITE SEQUENCES AND SERIES.
DOVER. 2 BCUV
+ (G399, USEFUL REFERENCE)

KNUTH, D.E. SURREAL NUMBERS.
ADDISON-WESLEY, 1974. 4 CUV
+ (NOVELETTE, PP 119)

KORDEMSKY, B. THE MOSCOW PUZZLES.
PENGUIN, 1975. 2 LMUVZ *
+ (MIS 6,1)

KORNER, S. THE PHILOSOPHY OF MATHEMATICS
HUTCHINSON'S UNIVERSITY LIBRARY CU
+ (DIFFICULT - BUT THE MOST READABLE)

KOROVKIN, P.P. INEQUALITIES
BLAISDELL, 1961 LMUVC
+

KRAITCHIK, M. MATHEMATICAL RECREATIONS.
ALLEN & UNWIN, 1960. BLMUVZ *D
+

KRAUSE, E.F. TAXICAB GEOMETRY.
ADDISON-WESLEY, 1975. 3 LMPQUV
+ (MIS 5,2, SIMPLE BUT TEACHES SOME PROFOUND BASIC GEOMETRICAL IDEAS)

KRULIK, S. HANDBOOK OF AIDS FOR TEACHING JUNIOR-SENIOR HIGH SCHOOL MATHEMATICS
W. B. SAUNDERS CO. 1971, (PHILADELPHIA U.S.A.). LPQU
+ (HANDBOOK OF 41 MULTI SENSORY AIDS, PP.120)

LANCASTER, P. MATHEMATICS: MODELS OF THE REAL WORLD.
PRENTICE-HALL, 1976. 9 AUVBC *
+ (G418, PP164)

LAND, F.W. THE LANGUAGE OF MATHEMATICS.
MURRAY, 1975. 3 ABELMUV *
+ (WRITTEN AT ELEMENTARY LEVEL FOR PRIMARY TEACHERS)

LAWRENCE, J.D. A CATALOG OF SPECIAL PLANE CURVES.
DOVER, 1972. 3 BCLUV *
+ (G402, REFERENCE ONLY, BUT EXCELLENT, PP218)

LEAPFROGS GROUP — HISTORY SERIES: CONICS, COMPLEX NUMBERS (2 VOLS)
LEAPFROGS — 1,1 LUVH
+ (SERIES ALSO INCLUDES A RESOURCE FILE ON HISTORY OF MATHEMATICS)

LEAPFROGS GROUP — CALCULATORS; FITTING; SYSTEMS (3 VOLS)
LEAPFROGS, COLD HARBOUR, NEWTON ST. CYRES, EXETER, DEVON — 1,1 KMQ *
+ (LEAPFROGS GROUP ALSO PRODUCES: POSTERS, FILMS, SLIDES, CASSETTES & MATERIALS; SEE CATALOGUE)

LEAPFROGS GROUP (NETWORK SERIES) — WORKBOOKS: WITH FEW WORDS (BLUE, ORANGE, GREEN, BLACK) 4 VOLS.
HUTCHINSON, 1976 — 1,1 MQ
+ (PUZZLES AND DIAGRAMS INVITING THE USER TO ADD OWN IDEAS - VISUAL RATHER THAN VERBAL)

LEAPFROGS GROUP (NETWORK SERIES) — LINK BOOKS (LINKS, LEADS, LEAVES) 3 VOLS
HUTCHINSON 1976 — 1,1 KMQ
+ (PHOTOGRAPHS, DRAWINGS ETC. WITH IMPLICIT MATHEMATICAL THEMES - FEW CAPTIONS, LEAVES IS A "FLICKER BOOK")

LEAPFROGS GROUP (NETWORK SERIES) — ACTION BOOKLETS: 14 TITLES
HUTCHINSON, 1977 — 1,1 KMQ *
+ (TITLES ARE : ANIMATIONS, BANDS, CHANCE, CODES, CUBES, DOODLES, DOTS, FOLDS, MOVES, ORDERS, PEGBOARDS, PRINTS, SPIRALS, TILES)

LEDERMANN, W. — COMPLEX NUMBERS.
ROUTLEDGE. — 2 CUV
+

LEDERMANN, W. — INTRODUCTION TO GROUP THEORY.
OLIVER & BOYD, 1973 — 2 CUV
+ (G412)

LEWIS, R. — GROWTH AND DECAY MODELS.
PENGUIN, 1972. — CUV 0
+ (G401, PP64)

LIETZMANN, W. — VISUAL TOPOLOGY.
CHATTO AND WINDUS, 1969 — 2 CUMUVZ 0
+ (TRANS. FROM GERMAN, VERY READABLE INTRODUCTION, PP169)

LIGHTHILL, J., ED. NEWER USES OF MATHEMATICS.
PENGUIN, 1978. 3 ALUVBC
+ (G425, FULL OF MODERN NON-SCIENTIFIC APPLICATIONS, PP431)

LINDGREN, H. & FREDERICKSON, G. GEOMETRIC DISSECTIONS.
DOVER/CONSTABLE, 1965. MYZ *
+

LINDSAY, R.J. MATHEMATICS IN THE WORLD.
BLACKIE ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

LING, J. MATHEMATICS ACROSS THE CURRICULUM
BLACKIE, 1977 ABJL
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

LITTLEWOOD, D.E. THE SKELETON KEY OF MATHEMATICS.
HUTCHINSON, 1960. BCUV
+

LITTLEWOOD, J.E. A MATHEMATICIAN'S MISCELLANY.
METHUEN, 1957. BUV *O
+

LOCKWOOD, E.H. A BOOK OF CURVES
CUP, 1961. 11 BUMPUV *
+ (G360, ONE NEW CURVE DISCUSSED EVERY 2 PAGES)

LOCKWOOD, E.H. & MACMILLAN, M. GEOMETRIC SYMMETRY.
CUP, 1979 11 BUV
+ (G425, MIS8.3, PP228)

LOPSHITS, A.M. COMPUTATION OF AREAS OF ORIENTED FIGURES.
HEATH, 1963 V
+ (THEORY AND PRACTICE OF EVALUATING AREA, DONE WITH A GOOD DEAL MORE CARE THAN IS USUAL IN SCHOOL)

LOVELL, K THE GROWTH OF BASIC MATHEMATICAL AND SCIENTIFIC CONCEPTS IN CHILDREN
ULP, 5TH EDN., 1966 EJL *O
+

MACBEATH, A.M. ELEMENTARY VECTOR ALGEBRA.
OUP, 1964. CUV O
+

MACGILLAVRY, C.H. SYMMETRY ASPECTS OF ESCHER'S PERIODIC DRAWIN
BOHN, SCHELTEMA AND HOLKEMA, UTRECHT, BZU
2ND EDN., 1976
+ (ESCHER'S PICTURES USED TO PRODUCE TESSELATIONS; ANALYSIS PROVIDED)

MACH, ERNST THE SCIENCE OF MECHANICS.
OPEN COURT. BUY
+ (TOUGH GOING, BUT STILL A CLASSIC IN THE PHILOSOPHY OF SCIENCE)

MAINMARING, J. AN INTRODUCTION TO THE STUDY OF MAP PROJECTION
MACMILLAN 1ST EDN 1943 REPRINTED 1960 1 BUA
+

MALPAS, A.J. EXPERIMENTS IN STATISTICS.
OLIVER AND BOYD, 1969. UV O
+ (SOME GOOD EXPLORATORY WORK)

MANCHESTER COLLEGE OF EDUCATION NOTES ON GUIDELINES IN SCHOOL MATHEMATICS
HART-DAVIS, 1970 ELT
+ (OVERVIEW OF THE 11-16 MATHEMATICS SYLLABUS)

MARCH, L. & STEADMAN, P. THE GEOMETRY OF ENVIRONMENT.
RIBA PUBLICATIONS, 1971. 5 ABCLUV *
+ (G410, MATHS, IN ARCHITECTURE - MANY UNEXPECTED APPLICATIONS, THE FORMAL GEOMETRY IS SUBSTANTIAL, PP360)

MARDER, L AN INTRODUCTION TO RELATIVITY
LONGMANS 1968 1 UV
+

MARJORAM, D.T.E. TEACHING MATHEMATICS.
HEINEMANN, 1974. 3 ELTU
+ (G406, MIS 4,1, PP223)

MATHEMATICAL ASSOCIATION REPORTS ON THE TEACHING OF....(VARIOUS TITLES)
BELL BELTU *
+ (REPORTS ON GEOMETRY(1951),ARITHMETIC(1952,64),MECHANICS(1950,63), ANALYSIS(1963)A-LEVEL PROBABILITY AND STATISTICS(1975),11-16(1974) SIXTH-FORM NON-SPECIALISTS,ALGEBRA(1951,57),CALCULUS(1951),HIGHER GEOMETRY(1953),TRIGONOMETRY(1950) DESPITE THE CHANGES OF RECENT YEARS, THESE CONTAIN MUCH USEFUL MATERIAL : DETAILS FROM M.A.,LEICESTER)

MATHEMATICAL ASSOCIATION — WHY, WHAT AND HOW?: SOME BASIC QUESTIONS FOR MATHEMATICS TEACHING
M.A. LEICESTER, 1976 — EJLTU

MATHEMATICAL ASSOCIATION — A REVISED GUIDE TO MATHEMATICS PROJECTS IN BRITISH SECONDARY SCHOOLS
BELL, 1976 — BELU
(AN EARLIER VERSION WAS PUBLISHED IN 1968)

MATHEMATICS FOR THE MAJORITY PROJECT — GUIDES : COUNTING TO CALCULATING; GEOMETRY FOR ENJOYMENT; LUCK & JUDGEMENT; MACHINES, MECHANISMS AND MATHEMATICS; (AND OTHERS)
CHATTO AND WINDUS — LT
(GOOD SOURCE MATERIAL, BUT NEEDS ADAPTATION FOR LOW ABILITY PUPILS, THE PROJECT'S "TARGET AUDIENCE")

MATHEMATICS FOR THE MAJORITY PROJECT — CROSSING SUBJECT BOUNDARIES
CHATTO AND WINDUS, 1974 — ABJL

MATHEMATICS TEACHER. — CALCULUS.
NCTM/USA. — U

MATTHEWS, G (ED) — MATHEMATICS THROUGH SCHOOL
MURRAY, 1972 — 1 — BCEJLT
(MIS 1,7, LIVELY DESCRIPTIONS OF MATHEMATICS TEACHING AT VARIOUS LEVELS)

MAXWELL, D. — 11 TO 13
BLACKIE — ELT
(SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

MAXWELL, E.A — GEOMETRY BY TRANSFORMATIONS
CUP — UCB
(G413, SMP HANDBOOK)

MAXWELL, E.A. — FALLACIES IN MATHEMATICS.
CUP, 1959. — 5 — BELUVZ

MAXWELL, E.A. A GATEWAY TO ABSTRACT MATHEMATICS.
CUP, 1965. 3 BCLUV
+

MAXWELL, E.A. GEOMETRY BY TRANSFORMATIONS
CUP 4 CU
+

MAYNARD-SMITH J. MATHEMATICAL IDEAS IN BIOLOGY.
CUP, 1968. 3 ACUV
+ (INCLUDES EFFECT OF SIZE ON STRUCTURE IN ANIMALS; MECHANICS OF ANIMAL MOVEMENT; MODELS OF POPULATION GROWTH)

MCCULLAGH, P. DATA USE AND INTERPRETATION.
OUP, 1974. 2 BUV
+ (STATISTICS FOR GEOGRAPHERS, PP120)

MCKAY, H FUN WITH MECHANICS
O.U.P. 1944 JLM
+

MEADOWS AND DELBOURGO ADVANCED PURE MATHEMATICS.
PENGUIN. UV O
+

MENNINGER, K. NUMBER WORDS AND NUMBER SYMBOLS.
MIT. PRESS, CAMBRIDGE, MASS. 1969. BHJLUV
+ (USEFUL BACKGROUND IDEAS)

MENNINGER, K. MATHEMATICS IN YOUR WORLD.
BELL, 1961. BUV O
+

MEYER, P.L. INTRODUCTORY PROBABILITY AND STATISTICAL APPLICATIONS.
ADDISON-WESLEY 2ND EDN., 1970. 7 CU
+ (PP381)

MIDDNICK A TREASURY OF MATHEMATICS.2 VOLS.
PENGUIN, 1968. BHLMUV *O
+ (COLLECTION OF ORIGINAL SOURCES)

MILLINGTON, T.A. AND W. DICTIONARY OF MATHEMATICS
CASSELL, 1966 CL
+ (COMPREHENSIVE IN CONTENT, PRECISE IN DEFINITION)

MOAKES, A.J. NUMERICAL MATHEMATICS.
MACMILLAN, 1965. 1 CLMUV R
+ (FOR DESK CALCULATING MACHINES - BUT USEFUL NEVERTHELESS)

MOISE, EDWIN ELEMENTARY GEOMETRY FROM AN ADVANCED STANDPOINT.
ADDISON-WESLEY, 1963. 13 BCEU
+ (SLOW CAREFUL ESTABLISHMENT OF THE FOUNDATIONS; 2ND YEAR UNIVERSITY LEVEL)

MOLD, J TOPICS FOR MATHEMATICS,(4 VOLS)
CUP, L96 KMQ *
+ (MIS 1,1;TITLES ARE ROLLING,TESSELLATIONS,CIRCLES,SOLID MODELS)

MONTGOMERY, S. & RALSTON, E. W. SELECTED PAPERS ON ALGEBRA.
MATHEMATICAL ASSOCIATION OF AMERICA 8 CU
+ (G421,SELECTIONS FROM THE AMERICAN MATHEMATICAL MONTHLY,PP537)

MOORE, D. S. STATISTICS CONCEPTS AND CONTROVERSIES
FREEMAN, 1979. UV *
+ (EXCELLENT INTRODUCTION TO STATISTICAL THINKING FOR GENERAL STUDIES)

MORONEY, M. J. FACTS FROM FIGURES.
PENGUIN. 2 ABCLMUV
+ (POPULAR APPROACH, GOOD AND CLEAR, HARD IN PARTS; SOME SECTIONS DATED)

MOSES, S. THE ART OF PROBLEM-SOLVING.
TRANSWORLD. 1 UVZ *Q
+ (G413, PP183)

MOSTELLER, F. FIFTY CHALLENGING PROBLEMS IN PROBABILITY WITH SOLUTIONS.
ADDISON-WESLEY, 1965. CUV *Q
+ (WILL TEST OUT THE BEST A-LEVEL STUDENTS, PP88)

MOSTELLER, F. AND OTHERS, STATISTICS BY EXAMPLE, (4 VOLS).
EDS.
ADDISON-WESLEY, 1973. 4, BCEUV *
+ (TITLES ARE DETECTING PATTERNS, EXPLORING DATA, FINDING MODELS, WEIGHING CHANCES; INTERESTING ANALYSES OF REAL LIFE SITUATIONS)

MOSTELLER, F. ET AL PROBABILITY WITH STATISTICAL APPLICATIONS.
ADDISON-WESLEY, 2ND EDN., 1970. 8 UV *
+ (OPEN UNIVERSITY TEXT - AND USEFUL FOR A-LEVEL, PP542)

MUIR, J. OF MEN AND NUMBERS ....
1961 U
+

NAGEL, E. AND NEWMAN, J. R. GÖDEL'S PROOF.
ROUTLEDGE, 1971. 3 BCUV
+ (DESCRIBES IN A READABLE WAY ONE OF THE MOST IMPORTANT DISCOVERIES IN THE FOUNDATIONS OF MATHEMATICS)

NEILL, H. THE USE OF CALCULATORS IN THE SIXTH FORM.
COUNTY OFDURHAM ED. COMMITTEE, SPENNYMOOR UV
D16 6JO.
+

NEILL, H. AND MOAKES, A.J. VECTORS, MATRICES AND LINEAR EQUATIONS.
OLIVER AND BOYD, 1967. LUV 0
+ (NEI A LEVEL)

NEILL, H. AND SHUARD, H.B. FROM GRAPHS TO CALCULUS
BLACKIE, 1978 4 ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

NEUGEBAUER, O. THE EXACT SCIENCES IN ANTIQUITY.
BROWN UNIVERSITY PRESS, 2ND EDN., 1970. BHU *
+

NEWMAN, J.R. THE WORLD OF MATHEMATICS. (4 VOLS.)
ALLEN & UNWIN, 1960. 3, BCEHLUV *
+ (INDISPENSABLE - A CLASSIC; SELECTIONS FROM A WIDE RANGE OF ORIGINAL SOURCES, WITH HISTORICAL COMMENTARY; VOL II OUT OF PRINT)

NIVEN, I. THE MATHEMATICS OF CHOICE.
SINGER, NEW YORK CLMUV *
+

NIVEN, I. NUMBERS: RATIONAL AND IRRATIONAL.
MATHEMATICAL ASSOCIATION OF AMERICA, 1961. 3 BCUV *
+ (DISTRIBUTED BY WILEY)

NIVEN, I. & ZUCKERMAN, H.S. AN INTRODUCTION TO THE THEORY OF NUMBERS.
MATHEMATICAL ASSOCIATION OF AMERICA, 3RD 3 CLMUV *
EDN., 1976.
+

NOBLE B. APPLICATIONS OF UNDERGRADUATE MATHEMATICS.
MACMILLAN NY 1967 ACUV 0
+

NORMAC (NORTHERN MATHEMATICS (VARIOUS; 8 DIFFERENT TITLES)
COUNCIL)
NORMAC (B. S. PINFIELD, MANCHESTER 1 JLBTZ
EDUCATION COMMITTEE)
+ (MIS 7,3, MT 89, PRIMARY BOOKS FOR REFERENCE, PP. 40 EACH. TITLES
ARE RECEPTION, NUMBER 678, NUMBER FUN, NUMBER PATTERNS, INTRODUCTION
TO MEASUREMENT FOR INFANTS, BRICKS BOXES AND CONTAINERS, POLYGONS
AND POLYHEDRA, GEOBOARDS AND COORDINATES PRICE 30P OR 40P)

NORTHROP, E. P. RIDDLES IN MATHEMATICS.
PENGUIN. 1 BLMTUVZ *
+ (GOOD REFERENCE BOOK FOR PARADOXES; EXCELLENT DISCUSSION OF "EVERY
TRIANGLE IS ISOSCELES")

NOTTINGHAM UNIVERSITY, BASIC SKILLS IN MATHS FOR ENGINEERING.
SHELL CENTRE FOR
MATHEMATICAL EDUCATION
NOTTINGHAM UNIVERSITY, 1977 1 ABELMU *
+ (G4 18. MATHEMATICS REQUIREMENTS OF CRAFT APPRENTICES, WITH DETAILED
EXAMPLES OF USE. FOR EITB)

NUFFIELD/BRITISH COUNCIL MATHEMATICS : FROM PRIMARY TO SECONDARY
CHAMBERS/MURRAY/WILEY, 1978 3 JLETBP
+ (CONDENSED VERSION OF NUFFIELD GUIDES, COVERING THE 10-13
YEAR OLDS)

O'BEIRNE, T.H. PUZZLES AND PARADOXES.
OUP, 1965. BLUVZ
+

O'DAFFER, P.G. & CLEMENS, S.R. GEOMETRY: AN INVESTIGATIVE APPROACH.
ADDISON-WESLEY, 1977. LM *0
+ (A GOOD LOOK AT TESSELLATIONS AND SYMMETRY)

OGILVY, C.S. THROUGH THE MATHESCOPE.
OUP, 1956. BUVZ 0
+

OGILVY, C.S. TOMORROW'S MATH, (UNSOLVED PROBLEMS FOR THE AMATEUR)
OUP, 2ND EDN.,1972 UZ 0
+ (MIS 2,2, PP 198)

OGILVY, C.S. EXCURSIONS IN GEOMETRY.
LMUVZ *
+

OLDS, C.D. CONTINUED FRACTIONS.
MATHEMATICAL ASSOCIATION OF AMERICA, 1963 BCUV
+

ORE, O NUMBER THEORY AND ITS HISTORY
MC-GRAW HILL 1948 3+ UVH
+ (GXXXIII,WELL PRODUCED, SOUND ACCOUNT IN BOTH ASPECTS,RICH IN HISTORICAL MATERIAL, RANGING FROM BABYLONIAN PERIOD TO LIFE OF GAUSS,PP370)

ORE O. GRAPHS AND THEIR USES.
MATHEMATICAL ASSOCIATION OF AMERICA, 1963 CLMUV
+

ORRELL, C.P. AN INTRODUCTION TO PROBABILITY AND STATISTICS, INCLUDING TEACHERS' GUIDE.
OLIVER AND BOYD, 1968. UV

0
+ (IMAGINATIVE, SIMPLE, SOUND)

PALING, D. ET AL — MAKING MATHEMATICS; A SECONDARY COURSE. BOOKS 1-2-3-4, TOPIC BOOKS & WORKBOOKS.
OUP, 1968-71. LMPQ
+ (MIS 1,5 NON - EXAMINATION SECONDARY PUPILS. TOPIC BOOKS INCLUDE MAKING MODELS, MOVEMENT AND PATTERN, FLOW DIAGRAMS TO COMPUTERS)

PAPY, G. — MODERN MATHEMATICS. VOLS I-VI
COLLIER-MACMILLAN. 3 LMTVB
+ (OF INTEREST TO SEE HOW ANOTHER COUNTRY DOES IT DIFFERENTLY; INTENDED FOR PUPILS, THOUGH MANY WOULD FIND IT TAXING. A MODERN COURSE IN THE SPIRIT OF BOURBAKI)

PAPY, G. — GROUPS.
MACMILLAN, 1965 UYC 0
+ (FORMAL BUT RICH FIRST COURSE ON GROUPS FOR UNIVERSITY)

PARSONSON, S.L. — PURE MATHEMATICS VOL I & II
CUP 2ND EDN UV
+ (A LEVEL TEXTS, PP. 380, 320)

PEARCY, J.F. AND LEWIS, K. — EXPERIMENTS IN MATHEMATICS, STAGES 1,2,3.
LONGMANS, 1967 KMQ
+

PEDOE, D. — GEOMETRY AND THE LIBERAL ARTS.
PENGUIN. 3 CHLUV *
+ (G419, CLASSICAL MATERIAL, NICELY PRESENTED PP296)

PEDOE, D.A. — A COURSE OF GEOMETRY FOR COLLEGES AND UNIVERSITIES.
CUP, 1970. 13 BUV *
+ (G397, CAREFUL AND THOROUGH SURVEY OF REAL GEOMETRY SOME DELIGHTFUL SECTIONS, PP 449)

PEDOE, D. A. — THE GENTLE ART OF MATHEMATICS.
PENGUIN BLUVZ *O
+

PERELMAN, Y. FIGURES FOR FUN; STORIES AND CONUNDRUMS.
MOSCOW: FOREIGN LANGUAGES PUBLISHING HOUSE, LMUVZ
1957.
+

PERFECT, H. TOPICS IN GEOMETRY.
PERGAMON, 1963. UV 0
+

PHILLIPS, H BRUSH UP YOUR WITS
DENT 1936 ZJLUNV
+

PIAGGIO, H.T.H. DIFFERENTIAL EQUATIONS.
BELL 27TH EDN. BCUV 0
+ (STILL ADMIRED, DESPITE ITS AGE)

POLYA, G. MATHEMATICAL DISCOVERY; ON UNDERSTANDING,
LEARNING AND TEACHING PROBLEM SOLVING. VOL 1 AND VOL 2.
WILEY, 1962 AND 1965. ETUZ *0
+

POLYA, G. HOW TO SOLVE IT.
PRINCETON U.P., 1957. 2 BEJLUVT *
+ (MIS 1,7, A HEURISTIC APPROACH TO PROBLEM SOLVING, PP 240)

POLYA, G. MATHEMATICS AND PLAUSIBLE REASONING (2 VOLS).
OUP PRINCETON UNIVERSITY PRESS, 1955. BCETUZ *
+ (EXCELLENT, STIMULATING; VOL I "INDUCTION AND ANALOGY", VOL II
"PATTERNS OF PLAUSIBLE INFERENCE" PP 280,244)

POLYA, G. & KILPATRICK, J. THE STANFORD MATHEMATICS PROBLEM BOOK WITH HINTS
AND SOLUTIONS.
TEACHERS COLLEGE PRESS, 1974. ELUVZ *
+ (G406, PROBLEMS FROM STANFORD COMPETITION, PP68)

POLYA, G. & SZEGOE, G. PROBLEMS AND THEOREMS IN ANALYSIS (2 VOLS).
SPRINGER VERLAG, 1976. 7,8 CTUZ
+ (A SEQUENCE OF PROBLEMS, WITH SOLUTIONS, IN SEVERAL AREAS OF
UNIVERSITY MATHEMATICS)

POLYA, G. MATHEMATICAL METHODS IN SCIENCE (SMSG STUDIES NO. XI)
LELAND STANFORD JUNIOR UNIVERSITY ACLMUV
+ (G419, PP234)

POPP, M. HISTORY OF MATHEMATICS: TOPICS FOR SCHOOLS.
OPEN UNIVERSITY PRESS/SADLER, 1978. HLUV
+

QUADLING, D.A. MATHEMATICAL ANALYSIS.
OUP, 1956. CUV O
+

QUADLING, D. A. ELEMENTARY MECHANICS, VOLS I & II
BELL, 1957, 1959. UV
+

QUADLING D. THE SAME BUT DIFFERENT.
MATHEMATICAL ASSOCIATION, 1969. BEJLU *
+ (SURVEY OF NOTION OF "EQUIVALENCE" IN SECONDARY SCHOOL MATHEMATICS)

RACTLIFFE J.F. ELEMENTS OF MATHEMATICAL STATISTICS.
OUP,1967 4 UV
+

RADE, L. THE TEACHING OF PROBABILITY AND STATISTICS.
ALMQUIST & WIKSELL, 1970. 8 ETUV
+ (G395, CONFERENCE REPORT CSMP, SOME GOOD IDEAS, VARIABLE, PP. 373)

RADEMACHER, H. & TOEPLITZ, O. THE ENJOYMENT OF MATHEMATICS.
PRINCETON UNIVERSITY PRESS (EPSOM RD., GUILDFORD,SURREY) 3 UVZB *
+ (ENJOYABLE TO DIP INTO,PP204)

RAPAPORT, E. (TRANSLATOR) HUNGARIAN PROBLEM BOOKS, 1&2.
RANDOM HOUSE, 1963. LUVZ *
+

REICHMANN W.J. THE FASCINATION OF NUMBERS.
METHUEN, 1963. 1 BLUV *O
+

REICHMANN W.J. THE USE AND ABUSE OF STATISTICS.
PENGUIN 2 BEJLNUV *
+

REID, C. A LONG WAY FROM EUCLID.
ROUTLEDGE AND KEGAN PAUL,1973 HV *O
+ (LAYMAN'S INTRODUCTION TO EUCLID AND HIS INFLUENCE,NONSPECIALIST GUIDE TO MODERN MATHEMATICS)

REYNOLDS, J.A.C. SHAPE, SIZE, AND PLACE.
ARNOLD. 1 LN
◆ (PP68)

ROBERTS, J ELEMENTARY NUMBER THEORY - A PROBLEM ORIENTED APPROACH
M.I.T. PRESS, 1977 9 VCZ *
◆ (PRESENTS NUMBER THEORY BY PROBLEMS)

ROBSON, A EXAMPLES IN MATHEMATICS FOR 5TH AND LOWER 6TH FORMS
BELL, 1948 UVZ
◆

ROGERS, J.T. THE STORY OF MATHEMATICS
BROCKHAMPTON, 1968 LU
◆

ROGERSON, A.T., ET AL MODERN MATHEMATICS IN THE SCIENCE LESSON.
CUP. 2 ABELTU
◆ (G419, MODERN MATHS RELEVANT TO SC. TCHG. PP. 39)

ROSEN, J. SYMMETRY DISCOVERED.
CUP 7 ABUMUV *
◆ (DISCURSIVE INTRODUCTION TO SYMMETRY FOR THE INTENDING PHYSICIST GROUP THEORY PRESENT BUT CAN BE OMITTED)

RUSSELL, A.H. RAPID CALCULATIONS
EMERSON, 1956 J L M.U V.
◆ (SHORT CUTS TO ARITHMETICAL CALCULATIONS)

RUSSELL, B. INTRODUCTION TO MATHEMATICAL PHILOSOPHY.
ALLEN & UNWIN, 1960. BCUV
◆

RUTHERFORD, D.E. VECTOR METHODS.
OLIVER & BOYD, 1957. CUV O
◆ (CLEAR, CONDENSED, VECTORS IN 3D)

SACKSON, S. A GAMUT OF GAMES.
NELSON, 1974. JKLMPQUVZ *
◆ (IDEAL FOR A MATHS CLUB)

SANFORD, V. A SHORT HISTORY OF MATHEMATICS.
HARRAP, 1958. BHJLU O
◆ (COVERS HISTORICAL FIELD AT ELEMENTARY LEVEL)

SAWYER, W.W. PRELUDE TO MATHEMATICS.
PENGUIN, 1955. BELMUVC *O
+ (LAYMAN'S GUIDE TO NOVEL MATHEMATICS E.G. NON-EUCLIDEAN GEOMETRY)

SAWYER, W.W. A PATH TO MODERN MATHEMATICS.
PENGUIN, 1966. BELUV *O
+ (LAYMAN'S INTRODUCTION TO LINEAR ALGEBRA AND METRIC SPACES)

SAWYER, W.W. THE SEARCH FOR PATTERN.
PENGUIN, 1970. BELMTUV *O
+

SAWYER, W.W. MATHEMATICIAN'S DELIGHT.
PENGUIN. 1 BELTUV *
+

SAWYER, W.W. VISION IN ELEMENTARY MATHEMATICS.
PENGUIN. BEJLTUV *O
+

SAWYER, W.W. A CONCRETE APPROACH TO ABSTRACT ALGEBRA.
DOVER, 1978 BCLTUV *
+ (MIS 8,3)

SAWYER, W.W. AN ENGINEERING APPROACH TO LINEAR ALGEBRA.
CUP, 1972. 9 CUV *
+ (G403, A VERY CLEAR ACCOUNT OF MATRICES AT UNIVERSITY LEVEL, PP. 304)

SAWYER, W.W. AND STAWLEY, L.G. DESIGN AND MAKING
BLACKWELL, 1950 JL *
+

SCHAAF, W.L. A BIBLIOGRAPHY OF RECREATIONAL MATHEMATICS. 3 VOLS.
NCTM 1970-73. BLTUZ *
+ (USEFUL REFERENCE)

SCHOOLS COUNCIL STUDIES BASED ON THE N AND F PROPOSALS (18+ RESEARCH PROGRAMME)
SCHOOLS COUNCIL 1977 BEU
+ (REPORT OF THE MATHEMATICS SYLLABUS STEERING GROUP)

SCHOOLS COUNCIL. MIXED ABILITY TEACHING IN MATHEMATICS
SCHOOLS COUNCIL BELT *
+ (MIS 7,2, EXCELLENT CASE STUDIES OF MIXED ABILITY TEACHING IN ACTION: DISCUSSION OF ISSUES AND PRACTICALITIES)

SCHOOLS COUNCIL CONTINUING MATHEMATICS PROJECT — UNITS, BATCH 1 (15 TITLES)

LONGMANS, 1978 — 8 — ELTUV

+ ("PROGRAMMED" MATERIALS FOR INDEPENDENT LEARNING OF MATHEMATICS BY NON-SPECIALISTS. TITLES: INDICES AND STANDARD FORM, LINEAR PROGRAMMING, HYPOTHESIS TESTING 1,2,3, THE CHI-SQUARE TEST, CORRELATION, DESCRIPTIVE STATISTICS 1,2,3,4, PROBABILITY 1,2,3, TEACHERS' GUIDE)

SCHOOLS COUNCIL CONTINUING MATHEMATICS PROJECT — UNITS, BATCH 2 (14 TITLES)

LONGMANS,1978 — 8 — AELTUV

+ ("PROGRAMMED" MATERIALS FOR INDEPENDENT LEARNING OF MATHEMATICS BY NON-SPECIALISTS. TITLES: POSITIVE AND NEGATIVE NUMBERS, TRANSFORMATION OF FORMULAE, INEQUALITIES, WORKING WITH RATIOS, USE OF LOGARITHMS TO DETERMINE RELATIONSHIPS,THEORY OF LOGARITHMS 1,2, RANK SIZE RULE, NEAREST NEIGHBOUR ANALYSIS, NETWORK ANALYSIS, TRIGONOMETRY OF THE RIGHT-ANGLED TRIANGLE, THE GRAVITY MODEL ,FLOWCHARTS AND ALGORITHMS, CRITICAL PATH ANALYSIS)

SCHOOLS COUNCIL SIXTH-FORM MATHEMATICS PROJECT: MATHEMATICS APPLICABLE — STUDENTS' CONTINUATION UNITS (3 TITLES)

HEINEMANN(1975-8) — 2,4 — ABUV *

+ (TITLES ARE LOGARITHMIC/EXPONENTIAL;CALCULUS APPLICABLE;ALGEBRA WITH APPLICATIONS PP178,132,256 RESPECTIVELY)

SCHOOLS COUNCIL SIXTH-FORM MATHEMATICS PROJECT: MATHEMATICS APPLICABLE — STUDENTS' STARTER UNITS (5 TITLES)

HEINEMANN(1975-8) — 2,3 — ALV *

+ (TITLES ARE UNDERSTANDING INDICES;GEOMETRY FROM COORDINATES; INTRODUCTORY PROBABILITY;POLYNOMIAL MODELS;VECTOR MODELS.PP144, 96,64,120,128 RESPECTIVELY)

SCHOOLS COUNCIL SIXTH FORM MATHEMATICS PROJECT: MATHEMATICS APPLICABLE — MATHEMATICS CHANGES GEAR:TEACHING MATHEMATICS APPLICABLE (2 VOLS)

HEINEMANN,1975 AND 1978 — 1,1 — ATUV *

+ (INTRODUCTORY BOOKS FOR STUDENTS AND TEACHERS RESPECTIVELY)

SCHUH, F. THE MASTER BOOK OF MATHEMATICAL RECREATIONS.
DOVER, 1968. 3 MVZ
+

SCOPES, P.G. MATHEMATICS IN SECONDARY SCHOOLS:A TEACHING APPROACH
CUP, 1973. 3 ELTU
+ (G405,MIS 3,1, PP. 179)

SCOTT, D.B. AND TIMS, S.R. MATHEMATICAL ANALYSIS
CUP CU 0
+

SEABORNE, P.L. AN INTRODUCTION TO THE DIENES MATHEMATICS PROGRAMME.
HODDER AND STOUGHTON, 1975 3 EJLT
+ (G410,MIS 5,1, PP. 147)

SERVAIS W. AND VARGA T. EDS. TEACHING SCHOOL MATHEMATICS;A UNESCO SOURCEBOOK.
PENGUIN BELTU *0
+

SHACKLE, G.L.S. MATHEMATICS AT THE FIRESIDE
CUP, 1952 LMUV
+

SHERLOCK, A.J. INTRODUCTION TO PROBABILITY AND STATISTICS.
ARNOLD. LMUV 0
+ (C.S.M. SERIES TO O LEVEL)

SHKLARSKY,D.O. ET AL U.S.S.R OLYMPIAD PROBLEMS BOOK
FREEMAN, 1962. UVZ 0
+

SIERPiNSKI, W. 250 PROBLEMS IN ELEMENTARY NUMBER THEORY.
ELSEVIER, 1970. 3 UVZ
+ (G396, PP. 124)

SILLITOE, A.F. BRITAIN IN FIGURES; A HANDBOOK OF SOCIAL STATISTICS
PENGUIN, 1971. ALMUV 0
+

SINGH,J. OPERATIONS RESEARCH.
PENGUIN, 1971. ABCU
+

SINKOV, A ELEMENTARY CRYPTANALYSIS
SINGER (NOW MAA), 1968 LMUVZ
+

SKEMP,R.R. THE PSYCHOLOGY OF LEARNING MATHEMATICS.
PENGUIN, 1971. 1 EJLTU *
+ (MIS 1,7, TEACHING FOR UNDERSTANDING - THE DEVELOPMENT OF A SCHEMA)

SMITH,D.E. NUMBER STORIES OF LONG AGO
GINN, 1948 1+ LMHJK
+ (GXXXII,SHOULD INTEREST CHILDREN OF ALL AGES,PP188)

SMITH, D.E. HISTORY OF MATHEMATICS. 2 VOLS.
DOVER, 1958. 5,5 HUV *
+ (WRITTEN 1928, STILL GOOD.ONE VOL.BIOGRAPHY,OTHER TOPICS;VALUABLE REFERENCE)

SOMINSKII, I.S. THE METHOD OF MATHEMATICAL INDUCTION.
HEATH. LMUV
+

SPRENT, P. STATISTICS IN ACTION.
PENGUIN, 1977. 2 BLUVE *
+ (USEFUL FOR EDUCATIONAL STATISTICS)

STEINHAUS, H. MATHEMATICAL SNAPSHOTS.
OUP,3RD EDN. 1969. 8 BJLMUVZ *
+ (EXCELLENT; BEAUTIFUL AND UNUSUAL BOOK OF PHOTOS AND DIAGRAMS)

STEINHAUS, H. ONE HUNDRED PROBLEMS IN ELEMENTARY MATHEMATICS.
PERGAMON, 1963. VZ O
+

STEVENS, P.S. PATTERNS IN NATURE.
PENGUIN, 1974. 4 AJLMUVZ
+ (FULL OF VISUAL PATTERNS WITH MATHEMATICAL CONNECTIONS,SOME FOUND IN SEEMINGLY HAPHAZARD SITUATIONS)

STEWART I.M. CONCEPTS OF MODERN MATHEMATICS.
PENGUIN, 1975 2 BCELUV *
+ (G415,LAYMAN'S INTRODUCTION, CONTAINS A GOOD SURVEY OF ALGEBRAIC TOPOLOGY)

STOLL R.R. SETS, LOGIC, AND AXIOMATIC THEORIES.
FREEMAN, 2ND EDN., 1974 9 BCLUV
+ (PARTS ARE ADVANCED, PP. 233)

STOVER STEREOGRAMS.
HOUGHTON-MIFFLIN. PQMV
+ (HOW TO MAKE STEREOSCOPIC PICTURES, WITH EXAMPLES AND PRECISE INSTRUCTIONS, 3D SPECTACLES PROVIDED)

STRASZEWICZ, S. MATHEMATICAL PROBLEMS & PUZZLES FROM THE POLISH MATHEMATICAL OLYMPIADS.
PERGAMON, 1965. UVZ O
+

STRUIK, D.J. A CONCISE HISTORY OF MATHEMATICS.
BELL, 1954. 3 CHUV *
+ (G406, PP. 195)

SULLIVAN, E.V. PIAGET AND THE SCHOOL CURRICULUM. BULLETIN NO. 2,
ONTARIO INSTITUTE FOR STUDIES IN EDUCATION. EJL
+ (PP 38)

SUPPES, P. INTRODUCTION TO LOGIC.
VAN NOSTRAND REINHOLD, 1957. CLUV
+

SUTTON, O.G. MATHEMATICS IN ACTION.
BELL, 1954. ABEUV O
+ (INTERESTING SIDE-LIGHTS FROM A PRACTISING MATHEMATICIAN)

SZMIDT, T., ED. STATISTICAL TEACHING AIDS; MANUALS OF LABORATORY EXPERIMENTS AND DEMONSTRATIONS IN STATISTICS.
INSTITUTE OF STATISTICIANS, 2ND EDN., 1977. CPU
+ (PP141)

TAHTA D.G. PEGBOARD GAMES. MATHEMATICS TEACHING PAMPHLET NO. 13.
ATM, 1967. EJKLMPQTUVZ
+

TAMBADGE, A. & STARR, P. A PARENTS' GUIDE TO SCHOOL MATHEMATICS.
CUP, 1970 3 BLU
+ (G418, SUITABLE NON-MATHEMATICAL TEACHERS, LARGELY ABOUT SMP 1-5, PP 182)

TAHUR, JUDITH M., ED. STATISTICS; A GUIDE TO THE UNKNOWN.
HOLDEN-DAY, 1972. ABELUV *
+ (EXCELLENT BACKGROUND READER TO THE MANY APPLICATIONS OF STATISTICS, PP430)

THOMAS, D.P. MATHEMATICS APPLIED TO MECHANICS.
BLACKIE, 1977. 6 CUV
+ (G421, USES MODELLING IDEAS, VECTORS. SMG A LEVEL TEXT. PP. 356)

THOMAS, M. ON OUR OWN TWO FEET, BOOKS 1 - 5.
HEINEMANN, 1978 2 M
+ (WORKBOOKS ON SOCIAL APPLICATIONS, STARTING WORK, ETC., FOR LOW ACHIEVERS)

THOMPSON, SIR D'ARCY W. ON GROWTH AND FORM.
CUP, 1942,ABRIDGED EDN. EDITED BONNOR. 6 ABLUV *
+ (CLASSIC ON MATHEMATICAL ASPECTS OF BIOLOGY)

THWAITES B. SMP: THE FIRST TEN YEARS.
CUP, 1972. 3 BELU
+ (MIS 2,2)

THYER, D.F. & MAGGS, J.E. TEACHING MATHEMATICS TO YOUNG CHILDREN.
HOLT, RINEHART & WINSTON, 1971. 4 EJLQT
+ (SOURCE BOOK FOR TOPICS 5-9, EXCLUDING NUMBER. PP. 266)

TIETZE, H. FAMOUS PROBLEMS OF MATHEMATICS.
GRAYLOCK, 1965. CUVZ *
+ (DISCURSIVE SURVEY OF TOPICS IN PURE MATHEMATICS,ESP.PRIME NUMBER THEORY AND ALGEBRAIC TOPOLOGY.VERY EASY READING)

TOEPLITZ, OTTO THE CALCULUS, A GENETIC APPROACH.
U. OF CHICAGO PRESS, 1963. CHUV
+ (PRESENTS THE IDEAS OF THE CALCULUS AS THEY DEVELOPED)

TRAKHTENBROT, B.A. ALGORITHMS AND AUTOMATIC COMPUTING MACHINES.
HEATH,BOSTON,1963 CU *
+

TREEBY, T. NUMERICAL METHODS.
MURRAY, 1973. 2 UV
+

TURNBULL, H.W. THE GREAT MATHEMATICIANS.
METHUEN, 1962. BHJLU O
+

TURNBULL, H.W. THEORY OF EQUATIONS.
OLIVER AND BOYD, 1952. CUV O
+ (PP. 166)

USPENSKII, Y.A. SOME APPLICATIONS OF MECHANICS TO MATHEMATICS
PERGAMON, 1961 1 U.V.
+

VAJDA, S. THEORY OF GAMES AND LINEAR PROGRAMMING.
CHAPMAN AND HALL, 1977 2 BCLUV
+ (CONDENSED BUT CLEAR)

VILENKIN, N.Y. COMBINATORICS.
ACADEMIC PRESS, N.Y. 1961. CUV
+

VON BARAVALLE, H GEOMETRIE ALS SPRACHE DER FORMEN (GEOMETRY AS THE LANGUAGE OF SHAPES)
VERLAG FRIER GEISTLEBEN, STUTTGART, 1963 BL
+ (IN GERMAN, PP. 146, PLUS 411 BLACK AND WHITE DRAWINGS OF GEOMETRICAL INTEREST)

VOROBYOV, N.N. THE FIBONACCI NUMBERS.
HEATH, BOSTON LUV *
+ (EXTENSIVE ACCOUNT OF PROPERTIES, NO HISTORY OR APPLICATIONS; TRANS. FROM RUSSIAN, POPULAR LECTURES IN MATHEMATICS SERIES)

WAIN, G.T. & WOODROW, D., EDS. MATHEMATICS TEACHER EDUCATION PROJECT, (2 VOLS)
BLACKIE, 1980. 14, 11 ELTU
+ (STUDENT MATERIALS AND TUTOR'S GUIDE FOR INITIAL - AND IN-SERVICE - TRAINING OF MATHEMATICS TEACHERS)

WAIN, G.T., ED. MATHEMATICAL EDUCATION.
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